

**( Core Java Programs - IF ELSE)**

1. Write a program to check whether a given number is even or odd.
2. Write a program to find the position of a point in a Cartesian coordinate system
3. Write a program to take sides of a triangle and check the type of the triangle
4. Write a program to accept the co efficient of a quadratic equation like a,b and c and then find the Discriminant (  $disc = (b^2) - 4*a*c$ ). And display the type of the roots
5. Write a program to check given two points of a line are parallel to X axis or not in a Cartesian Co ordinate System.
6. Write a program to check given two points of a line are parallel to Y axis or not in a Cartesian Co ordinate System.
7. Write a program to find the grade of a student of a subject based on given table.

Marks	Grade
$\geq 0$ to 35	FAIL
36 to 40	Pass Class
41 to 50	3rd Division
51 to 60	2nd Division
61 to 70	1st Division
71 to 100	Distinction

8. Write a program to find grade of an employee based on the following given table .

Salary	Grade
$\leq 15000$	Peon
15001 to 25000	2nd Division Clerk
25001 to 35000	1st Division Clerk
35001 to 45000	Assistant Manager
45001 to 60000	Manager

9. Write a program to find all root of a quadratic Equation  $Ax^2+Bx+C=0$  for non zero co-efficient A, B, C else report error.
10. Write a Program to check whether a given character is Lower Character Alphabet or Upper Character Alphabet or Digits.

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